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## ABSTRACT OF THE DISCLOSURE

A method and system for single-ended qualification of subscriber loops for xDSL services is disclosed. Subscriber loop database record are screened for disqualifying devices or services on the loop. If none are found, a set of predetermined electrical characteristics of the subscriber loop are derived from information in the database, or measured using test equipment at a central office end of the subscriber loop. The electrical characteristics are used to assess the noise margin for the loop. If the assessed noise margin suggests that the loop does not qualify, the loop is modeled to assess if it will qualify in the presence of repeaters. The method and system are particularly well suited for qualifying a loop for HDSL or HDSL2 service.